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(54) **SOUND FIELD PROCESSOR AND SOUND FIELD REPRODUCER**

(57) Abstract:

**PURPOSE:** To obtain a sound field processor and a sound field reproducer which is capable of creating extensive feeling or natural sound field according to sound sources.

**CONSTITUTION:** The signal inputted in an input terminal L 12 is branched into the signal to be outputted to an output terminal LO 2 and the signal to be inputted in a transmission circuit T 1. As for the signal inputted in the transmission circuit T 1, only frequency components which are capable of recognizing the location of a sound source by phase difference or attaining time difference is taken out and phase delay corresponding to the phase delay to be generated when reproduced sound is heard by a human is performed. The signal after phase delay is performed is mixed with the signal inputted into an input terminal R 12 by an addition circuit AD 2 after the phase of the signal is inverted by a factor multiplier K1 and is outputted to an output terminal RO 2. The inputted signal is outputted to output terminal LO 2. The inputted signal is outputted to the output terminal LO 2 and the signal which is reverse in phase and is delayed is outputted to an output terminal RO 2. When the sound source is connected and reproduced, the delay of the phase can not be recognized, and when the sound source is located on the side which is recognized as outside of practical one, the delay is recognized.

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